EO TYPI	E III (fo	or distr	ibution of GES p	oackag	es)	
DISTRIBUTION BY:	EERING (DOCUME	NTATION		INITIATOR	OR OTHER
TYPE OF PACKAGE T	YPE OF	FUNDIN	IG (check one)	WORK F	ERFORME	DBY (check o
REVIEW FINAL	WOR	IORIZATI K ORDEF ER			AINTENANC N-SITE CON THER CONT / A	TRACTOR
DISTRIBUTION:				n weg it en		
Name / Organization	Bldg.	# of Copies	REMARKS SECTION			
*D. Warfield - FQE (information only)	T130D	1	(Attached documents ar	e as listed	on the Docu	iment Index)
MARK AUSTIN, ERE PROJECT	080	1	X IF COMME	NTS	ARE NO	T RECEIVED
SEFF FAUBLE, ERE ENG	130	1	BY C.O.B			
BOB CAMPBELL ERE ENG	130	1	CONCURRE			
STEVE HOWARD, DOE	T124A					
SCOTT SUROVCHAK	TITA					
DICK NORTON, RAD ENG	1690B	1				
BRIAN HASENACK, SPRP MEMT	080	1				
JEFF SIMMS , CONST MGMT	1	1				
T. KRAMER , PM	030	1				
RICK DUNN, OPERATIONS	774	1				
M MCKEE, SOLAR PONDS	080	1				
T DANIELSON SPRP	080	١	·			
KEITH FARLEY HAS	130					
BRUCE CAMPBELL , FP	130					
LINDA EHRLICH ARCH	130					
				•		
			A TABLETOP REVIEW	MEETING	HAS BEEN	SCHEDULED
			ON 11/21/94	AT	9:00 (AM PM
			IN ROOM LOBBY	IN B	UILDING	130
PROJECT/WCF NUMBER BLDG: TITLE:	<u> </u>	i	CONFEREN	LE KU	210/	,
989884 964 BC	ILDI	NG "	764 REMOVA	لم		
INITIATOR (Print, Sign)		4 4 4		DAT	E	EXT.
LINDA EHRLICH / Sin	da El	mled		10.	127/54	7949
EO COORDINATOR (Print, Sign)				DAT	E	EXT.
BLAIR MADSEN (do)				l l	-28-94	4372
			EO DISTRIBUTION DA		ED CHARG	
36973 REF. EO#			10/28/9	0	EU OHANG	r HOMBEN

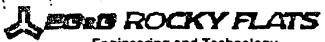
Distribution to FQE is only mandatory for Final Type III EOs. The Initiator may cross out FQE on Review Type III EOs.

6.1.4/4-1(1) 03/07/94

7 3 5

REVIEWED FOR WILLIAM UNIX





Engineering and Technology

PROJECT COVER/INDEX SHEET

PROJECT NUMBER: 989	884								
TITLE: BUILDING 964 REM	OVAL						DATE:	10/26/	94
TEAM MEMBERS: LEHRI	ICH of ARCH M					of			
of	of		of	· .		f			of
B = Technical Baseline (To be as-built)	R = Reference (Not to be as-built)	S = Sup for distr	porting (ibution)	(Not	Date	e = Date of	Issue		
Document Description, Nu	mber, Reference Location	on ·		В	or R	10	or S	Date	
PROGRAM ASSIGNMENT S					R	ı			
SYSTEM CLASSIFICATION]	R	1			
ENGINEERING WORK PLAI DESIGN INPUT	N				R	ı			
TECHNICAL SCOPE & CON	ISTRUCTION SPECIFICA	TIONS			R	,			
COMMENT RESOLUTION S	HEET				R				
AREA PLOT PLAN 30000-001 REV AC					В	l			
BUILDING 964 REMOVAL E 37805-13-01A REV A INTER		& ELEVATION	VS		R	1			
1 8 - 8 1 1 1 1			;						
DISTRIBUTION:	NAME				N.A	ME]		
(Complete when an EO i not used.)	15								
- /									
			<u> </u>					I	

Attach continuation page(s) if needed

6.0.2/2 1(1) 03/07/94



PROGRAM ASSIGNMENT SCREEN

	JOB#: <u>989884</u>		
BLD	G: 964 TITLE: REMOVAL DESCRIPTION	•	
SECT	TON A - NUCLEAR WORK PROCESS REQUIRED	Y	<u>N</u>
1.	Does work affect/modify Vital Safety Systems	0	•
	 a Modify VSS hardware, software or require a change in VSS? b. Impact a vital safety function during installation, 	0	•
	modification, or repair? c. Will this work create a "Violation" with respect to any Criticality Safety Operating Limit (CSOL) or Nuclear	0	©
	Material Safety Limit (NMSL), or is a new CSOL or NMSL required?	0	•
	d. Will this work require any modification, addition or deletion of an existing VSS procedure?	0	•
	e. Will this work impact any system for which credit is taken in an Operational Safety Requirement (OSR)?	0	•
	f. Will this work create an "Out-of-Tolerance" with respect to and OSR Limiting Condition of Operation (LCO)?	0	•
2.	Does work involve Hazardous Chemicals of sufficient quantity and/or type to pose potential for catastrophic events? (If applicable, refer to COEM, Section 6.3.6, Appendix 6).	0	•
SECT	ION B - SAFEGUARDS AND SECURITY SYSTEMS		
1.	Does work affect Safeguards and Security Systems?	0	•
SECT	ION C - ENGINEERING SUPPORT PROGRAM (ESP) ELIGIBILIT	Y	
"no,"	answer to any of the above questions is "yes," use other Sections of the CC use GES program. Tasks "failing" the screen may still use GES program. gement for approval.	EM. If all Submit A _l	answers are opendix 2 to
1.	Work is assigned to COEM procedure (circle one):	6.01 💿 6	5.02 Other
	LINDA EHRLICH Synda Child 10/27/94 Preparing Engineer (Print/Sign) Date	·	

SYSTEM CI											
WORK CONTROL NO. 989884	TITLE: BUILDIN	NG 964 REMOVAL	UILDING 964 REMOVAL								
System Name: NONE											
Bldg.: 964 Locatio	nt EAST OF POND 20	O7B CENTRAL	ND 207B CENTRAL								
6.1.1 SYSTEM REFERENCE DOCUM											
6.1.2 SYSTEM FUNCTIONS AND OF NOT APPLICABLE	PERATING MODES		s								
6.2 SYSTEM CLASSIFICATION			from those documents listed in Section 6.1.1 justification on appropriate space below).								
Category O 1)2	O 3 • 4	O 3 • 4								
Basis: THE BUILDING DOES NOT MEET THE IT IS NOT RELIED UPON FOR WORK HAZARDS. IT IS NOT REQUIRED FO SITE RESPONSE EMERGENCY. THE SYSTEM. THIS BUILDING IS A SYST											
LINDA EHRLICH Cognizant Engineer Print Name Cogniza	x7949 ant Engineer Signature Ext/										

6.3.6/2-1(1) 07/28/93

ENGINEERING WORK PLAN

FOR

BUILDING 964 REMOVAL

OCTOBER 1994

Mark Austin Project Engineer

DESIGN INPUT

CONCURRENCE SHEET

TE Tram	10-11-94
T. Kramer, Work Package Manager / Project Manager	Date
M. R. Austin, Project Engineer	10/11/94 Date
J. Fauble, ER Design Engineering	Date

Revision Record

Rev#	Purpose	Date	Approval(s)
Original Issue		10-10-94	
			·

1.0 Project Identification

The purpose of this project is to remove Building 964 to allow for the IM/IRA Phase I closure of the Solar Evaporation Ponds. The building is located east of 207B Center pond and consists of a wood frame structure covered with galvanized steel siding and a rolled asphalt roof. The building is used as a RCRA storage facility and does not have a history of contamination concerns.

2.0 Project Budget and Cost Plan

The project cost, based from the rough order of magnitude cost estimate from Tom Danielson in ?AUGUST 1994, is \$2,000,000. At the time, only limited information about the facility was available, and the scope estimate from Building 788 was used to develop the ROM number. Engineering & Project Management has prepared a scope level document and has proposed 80 hours to complete a General Engineering Services Title II package to remove the facility.

4.0 Project Justification

This project is required to allow for the optimization of the OU-4 Phase I IM/IRA.

5.0 Assumptions and Basis of Estimate

The engineering BOE's for Title II Design were provided by the engineering disciplines required for the project. The design hour commitments are listed below for Title II Activities:

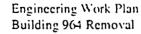
Project Engineer 10 hours Architectural Engineering 80 hours

Assumptions made consist of the following:

- 1. Relocation of the wastes (approximately 2092 drums) were not included in the scope.
- 2. The building was assumed to be "clean" from a radiological perspective and could be removed without special contamination concerns. Dick Norton of Rad Engineering stated that no rad concerns presently exist on the facility.
- 3. The building would be removed and disposed of as scrap material or wastes the landfill can take.
- 4. Rad./Haz. Monitoring will be required before anything can be released from the PA.

6.0 Relationship to Other Projects

This project is related to the OU-4 Phase I IM/IRA closure action. This building is to be removed prior to initiating the Phase I work.



October II, 1994 Revision 0

7.0 Key Personnel and Responsibilities

Project Manager (PM): T. Kramer

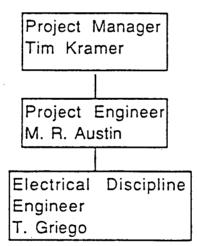
The PM is responsible for all DOE and 4700.1 reporting requirements for the project, work package development and maintenance, and provides the authorization to the Project Engineer to perform the design work for the project. The PM reports to the Program Manger for OU-4.

Project Engineer (PE): M. R. Austin

The PE is responsible for the technical baseline of the project and ensuring the design meets the needs of the PM. The PE is also responsible for coordination of the support disciplines, ensuring schedule and cost commitments for engineering activities are met, compilation of all support discipline deliverables to combine it into one completed Title design package, providing plantwide review of design packages, ensuring compliance with DOE 6430.1A, COEM and RFP Standards. The PE reports directly to the PM.

Architectural Engineer: L. Ehrlich

The architectural discipline engineer is responsible for providing a General Engineering Services (GES) design package which meets the needs identified in the scope document. The design should be in accordance with good engineering practices and meet all applicable requirements. The discipline engineer provides, as a deliverable to the PE, their completed drawings and specifications which meet the applicable design requirements. The discipline engineer is responsible for resolution of comments received from reviewers of the design package and receiving approvals required by their design managers.



Organizational Breakdown Structur

9.0 Schedule Requirements

(See Next Page)

The state of the s	March Street, Square,	ARCO ROBERT BUSINESS	Decrease of the last	
Name	Earliest Start	Earliest Finish	Duration	% Done
964 Scope Approval	10/11/94	10/11/94	1	0
Issue ESR & Approval of	10/12/94	10/12/94	1	0
Issue DSR to Architectural	10/13/94	10/13/94	1	0
Photo Shoot of Building	10/14/94	10/27/94	1 0	0
GES Design of 964	10/26/94	11/1/94	5	0
Prepare 964 for GES	11/2/94	11/2/94	1	0
Printing / Distribution of	11/3/94	11/7/94	3	. 0
964 Package Review	11/8/94	11/18/94	9	0
964 Review Meeting	11/21/94	11/21/94	1	0
964 Comment / Response	11/22/94	11/24/94	3	0
964 Final Package	11/25/94	11/25/94	1	0
Schedule Reserve	11/28/94	12/1/94	4	0
964 GES Package Approval	12/2/94	12/2/94	1	0
Print / Distribute Final	12/5/94	12/7/94	3	0

10/11/94

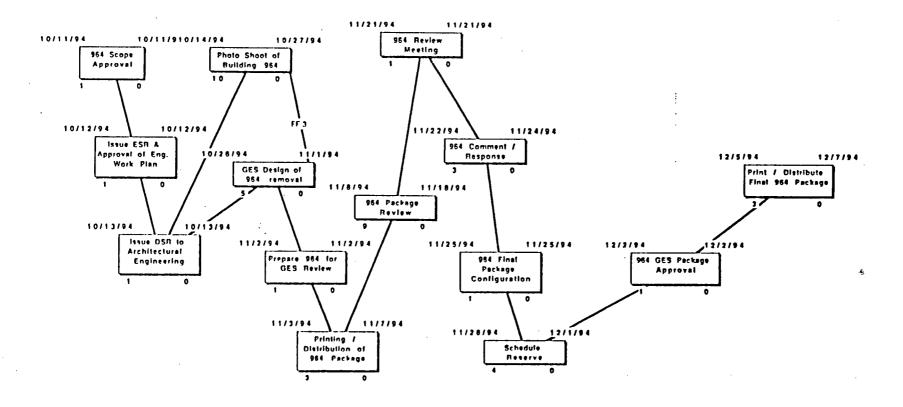
Building 964 Removal • EWP Schedule

				•						-				
9.4														
12/26/9		;					<u> </u>				35.1			
4 12/26/94														
2/9					· •									
12/1														
/94														:kage
11/28											_	Reserve	Approv	964 Pa
/14/94								П		98110	Final Package Configuration	ule Res	964 GES Package Approval	Print / Distribute Final 964 Package
11/14/94									_ 8 ×	/ Resp	Co)	Schedule	GES	stribide
4								□ *	964 Review Meeting	Comment / Response	Packag		964	10 / tu
10/31/94					$ \bigcap$		96.0	Toview	96	- 36 - 36	Final			-
94 10/31/94					<u> </u>	S Roview	of 964 Package	964 Package			964			
17/94					romova	ror nes		964						
10/1		=	_	Ш	ı 964	904	butlon							
	roval	c Plan	neering	Photo Shoot of Building 96-	GES Dealgn of 964 removal	Prepart 964	Printing / Distribution							
10/3/94	964 Scope Approval	.g. Worl	- E	of Belia	QES		Printing							
	164 Sco	el of Er	hliectur	Shoot										
9/19/94		Approv	to Arc	Photo					<u>.</u>				 	<u>-</u>
, 6		issue ESR & Approval of Eng. Work Plan	Issue DSR to Architectural Engineering											
9/5/94 9/19		ls s ue	lssu	 .	······	·					·			
9 / 6														
_									-					

Bullding 964 Removal - EWP Schedule

10/11/94

£



10/11/94

Building 964 Removal - EWP Schedule

TECHNICAL SCOPE & CONSTRUCTION SPECIFICATIONS for BUILDING 964 REMOVAL

Prepared by:

EG&G ROCKY FLATS, INC. Engineering and Technology Rocky Flats Plant Golden, Colorado

Project No. 989884

October 27, 1994

SECTION 01006-DRAWING LIST

This is a list of the drawings:

DRAWING No.	REV. No.	<u>TITLE</u>
30000-001	AC	AREA PLOT PLAN
37805-13-01A	Α	BUILDING 964 REMOVAL



DEMOLITION

GENERAL

- 1. This project is part of the OU-4 Phase I IM/RA closure action. This demolition work shall be completed before initiation of the Phase I work. This project is another area that shall be incorporated into the Environmental Cap.
- 2. All items either removed from the building or rubble from the demolition of the building shall be monitored and cleared by Radiological Engineering before removal from the protected area. Then disposition items for reuse or recycling as is appropriate.
- 3. All rubble from the building shall be sorted as follows:
 - a. Free release: These items detected by radiological engineering to be free of contamination shall be disposed of in the onsite landfill.
 - b. Decontamination to Free release: Items contaminated which can be decontaminated and then disposed of in the onsite landfill.
 - c. Contaminated: These items detected by radiological engineering to be contaminated shall be sorted, stacked and stored for later incorporation under the OU-4 environmental cap.
- 4. Rubble shall be defined as materials generated by the demolition of the buildings. Rubble shall be but is not limited to wood, siding, nail, metal brackets, vents, doors and roofing materials.
- 5. All work shall be done in accordance with Rocky Flats HSP Manuals.

ARCHITECTURAL

- 1. Before demolition of building 964 all waste storage drums, wood pallets and miscellaneous items shall be removed from the interior of the building by others.
- Demolish building 964 down to the concrete floor slab. This includes but is not limited to removing siding, corrugated fiber glass panels, roofing, girts, purlins and timber support structure.
- 3. Cut all protruding anchor bolts flush with the top of the concrete floor slab.
- 4. The subcontractor shall prepare and submit a sequence of work, crating plan and hoisting/rigging plan for engineering approval.
- 5. Location of a temporary laydown and sorting area shall be decided by Construction Management.
- 6. See Selective Demolition Specification for general requirements.

PIPING/MECHANICAL

1. No work required.

ELECTRICAL

1. No work required.

FIRE PROTECTION

1. No work required.



SECTION 02070-SELECTIVE DEMOLITION

PART I GENERAL

1.1 WORK INCLUDED

- A. Provide all labor, materials, tools and equipment and perform all work and services necessary for or incidental to the execution of all demolition complete with accessories as shown on the contract drawings and as specified herein in accordance with the provisions of the Contract Documents and completely coordinated with the work of all other trades. Although such work is not specifically shown or specified, all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound secure and complete erection of demolition shall be furnished and installed as part of this work.
- B. Work includes the removal of items indicated on the contract demolition drawings.
- C. Submittal-Five days prior to start of the work, submit a demolition schedule for the approval of the Buyer that outlines proposed demolition start dates and durations. Demolition of existing facilities shall be in accordance with the approved demolition schedule. Changes to the approved schedule shall be subject to approval of the Buyer.
- D. All work shall be performed in accordance with NFPA 241, Standard for Construction, Alteration and Demolition Operations.
- E. Any cutting or welding operations shall require a "Hot Work Permit" from the Fire Prevention Bureau (T371F).
- F. The sprinkler system shall remain in service at all times during demolition. Exceptions should be approved by Fire Protection and the proper impairment process followed. Obstructions to the sprinkler system shall be limited and approved by Fire Protection.
- G. All work shall be performed in accordance with HSP 12.11.

PART II PRODUCTS

2.1 EQUIPMENT: Equipment used in any demolition work must be equipped with safety devices that will adequately protect the operator.

PART III EXECUTION

3.1 PROTECTION OF EXISTING WORK: Before beginning any cutting or demolition work, carefully survey the existing work and examine the drawings and specifications to determine the extent of the work. Take all necessary precautions to ensure against damage to existing work to remain in space, to be reused or to remain the property of the Contractor, and any damage to such work shall be repaired or replaced as approved by Contractor at no additional cost to the Contractor. Carefully coordinate the work of this section with all other work.

5



Authorization No. 989884-BR BUILDING 964 REMOVAL

- 3.2 DUST CONTROL: The amount of dust resulting from demolition work shall be controlled with the construction of temporary barriers and partitions to prevent the spread of dust to occupied portions of the building and to avoid creation of nuisance in the surrounding areas. Use of water for dust control will not be permitted by the Contractor.
- 3.3 BURNING: The use of burning at the project site for the disposal of refuse and debris will not be permitted.
- 3.4 SALVAGE: Removed materials designated for salvage shall be stored in areas on the Rocky Flats plantsite designated by the Contractor. All such material shall remain the property of the Contractor.
- 3.5 DISPOSAL: All materials not designated for reuse or salvage shall be removed from the jobsite. Disposal of these materials shall be made at a dump site on the Rocky Flats plantsite designated by the Contractor.

END OF SECTION

DOCUMENT COMMENTS / RESOLUTIONS (C/R FORM)

Docu	ument Type:								
PRO.	ECT TITLE _B	UILC	INC	964 REMOVAL	RI	EVII	EWE	ER'S NAME (print)	
WCR	/EJO# <u>98988</u>							"	
	REFERENCE:	ਰ	Er-					PROPOSED COMMENT DISPOSITION:	
#	Page/Para./ Dwg #, etc.	GENER	MANDATO	COMMENTS: Show actual proposed rewording, if possible		ACC	RFJ	Plans to incorporate comment, OR technical justification for rejection	DATE COMMENT CLOSED
						_			
			_						
			_						
			_						
*MANI	DATORY COMME	UTS	MI	ST REFERENCE BASELINE DOCUMENT SECTI	ON AA		ΔPA	AGRAPH	
FULL above fully w	MANDATORY COMMENTS MUST REFERENCE BASELINE DOCUMENT SECTION AND PARAGRAPH. FULL CONCURRENCE: I have reviewed the document referenced above from my organization's discipline-specific point of view, concur fully with its implementation, and hereby grant my organization's approval. FINAL COMMENT DISPOSITION BY DEM: I have made final disposition for all comments not resolved to the satisfaction of the reviewer. Technical justification for the disposition of these comments is attached.								
peeu i	esolved to my sa	atisf	acti					gineering Manager (print)	
	wer's Signature <u>.</u> N. 10/20/03			Date	DE	M's	Sig	nature C)ate

6.1.2/3 1(2) 10/20/93



DOCUMENT COMMENTS / RESOLUTIONS (C/R FORM) Continuation Sheet

Page	 of	
ı ayc	 v	

PROJECT TITLE		BUILDING 964 REMOVAL	REVIEWER'S NAME (print)	
	Γ			 1
#	REFERENC	E:	PROPOSED COMMENT DISPOSITION:	DATE

#	REFERENCE: Page/Para./ Dwg #, etc.	COMMENTS: Show actual proposed rewording, if possible	$oxed{L}$		PROPOSED COMMENT DISPOSITION:	DATE COMMENT CLOSED
			A C C	RFJ	Plans to incorporate comment, OR technical justification for rejection	
-			-			
				<u> </u>		
-			-			
			·			
						-
		 	_			
l	II	<u>·</u>	l. 1			1 1

0.1.2/3 2(2) 10/20/93

